TABLE 74. Controlled shade regression experiments on H. helix			
Experiments ^a —	No. of pairs	Results Equation	
Chlorophyll A		V	
and shade Chlorophyll B	15	$Y_c = a + bX$	
and shade	15	$Y_c = a + bX$	
Total chlorophyll and shade	15	$Y_c = a + bX$	
Leaf biomass		TACAL SACILITY SACI	
and shade Vigor and	15	$Y_c = a + b \log (X + 1)$	
shade	12	$Y_c = a + b \log (X + 1)$	
Leaf biomass and vigor	15	$Y_c = a + bX$	
Total chlorophyll	15		
and vigor Total chlorophyll and leaf biomass	15 15	$Y_c = a + b \log (X + 1)$ $\log (Y + 1)_c = \log a + b$	$b \log (X + 1)$
Shade and	200		
light Chlorophyll A	15	$\log (Y+1)_c = \log a + c$	X log b
and light Chlorophyll B	15	$Y_c = a + b \log (X + 1)$	
and light Total chlorophyll	15	$Y_c = a + b \log (X + 1)$	
and light	15	$Y_c = a + b \log (X + 1)$	
Leaf biomass and light	15	$Y_c = a + b \log (X + 1)$	
Vigor and light	12	$Y_c = a + bX$	
	**	Results	2
Experiments ^a	Y intercept (a		Slope (b)
Chlorophyll A			otope (o)
and shade Chlorophyll B	3.66166	· ·	- 0.01819
and shade	2.34833	-	0.00875
Total chlorophyll and shade	5.96499	92	0.02680
Leaf biomass			0.02000
and shade Vigor and	0.46580	12	- 0.17008
shade	160.15292	-	74.15674
Leaf biomass and vigor	0.04649	-2	0.00370
Total chlorophyll	0.04047	27	0.00370
and vigor Total chlorophyll	2.39131	-	- 1.63177
and leaf biomass	0.58889	4	1.68898
Shade and light	1.73889	-	- 0.02663
Chlorophyll A			
and light Chlorophyll B	2.43429	+	- 0.70967
and light	1.82987	+	0.25226
Total chlorophyll and light	4.22967	+	- 0.95510
Leaf biomass	0.12505		0.14005
and light Vigor and	0.13505	:+	0.14905
light	27.32733	3	2.62767
Experiments ^a		Results	
Chlorophyll A	t value	Significance	r ² b
and shade	13 df = 2.591	significant at 0.025	34%
Chlorophyll B and shade	13 df = 1.750		174000k.
Total chlorophyll		not significant at 0.1	19%
and shade Leaf biomass	13 df = 2.311	significant at 0.05	29%
and shade Vigor and	13 df = 5.654	significant beyond 0.00	
shade Leaf biomass	10 df = 4.574	significant at 0.005	68%
and vigor Total chlorophyll	13 df = 8.287	significant beyond 0.00	1 84%
and vigor	13 df = 2.010	significant at 0.1	24%
Total chlorophyll and leaf biomass	13 df = 1.906	significant at 0.1	22%
Shade and light	13 df = 16.822	1990 W M W W W W W W W W W W W W W W W W W	7574 N.S.
Chlorophyll A		significant beyond 0.001	
and light Chlorophyll B	13 df = 2.016	significant at 0.1	24%
and light Total chlorophyll	13 df = 1.011	not significant at 0.1	7%
and light Leaf biomass	13 df = 1.631	not significant at 0.1	17%
and light Vigor and	13 df = 4.587	significant beyond 0.001	62%
light	10 df = 3.957	significant at 0.005	61%
^a The dependent or Y variable is shown first in each pair, the X or independent variable			
is shown second. Chlorophyll is in mg/g of dry-leaf weight, shade is in layers of cheesecloth, leaf biomass is in g (dry weight)/dm², vigor is in dm² of green and chlorotic leaves/dm²,			
and light is in percent of open sunlight.			
$^{b}r^{2}$ = coefficient of determination.			